

HYBRID X-RAY DETECTOR

Abstract

A hybrid x-ray detector includes: a first detector that is adapted to receive x-rays, the first detector absorbs a first portion of the x-rays and allows a second portion of the x-rays to pass through the first detector; and a second detector that is adapted to receive the second portion of the x-rays. A radiation imaging system includes: an x-ray source that produces x-rays; and an image detector assembly that is adapted to receive the x-rays, the image detector assembly having a hybrid x-ray detector that includes: a first detector that is adapted to receive the x-rays, the first detector absorbs a first portion of the x-rays and allows a second portion of the x-rays to pass through the first detector; a second detector that is adapted to receive the second portion of the x-rays; and an x-ray source. A method of operating a hybrid x-ray detector, the method includes: receiving x-rays at a first detector; absorbing a first portion of the x-rays; passing a second portion of the x-rays through the first detector; and receiving the second portion of the x-rays at a second detector.